

THE LEFT VENTRICLE

Method of Occluding A Patient's Ascending Aorta And Delivering
Cardioplegic Fluid

ABSTRACT

5 An extracorporeal support system including an extracorporeal support
apparatus and an arterial circulation support catheter. The arterial circulation
support catheter includes a blood lumen with a proximal end coupled to
extracorporeal support apparatus and a distal end inserted into the blood
circulation. A vent lumen has a distal end that crosses the aortic valve into the
10 left ventricle and provides direct venting of the left ventricle through the vent
lumen. An arterial circulation support catheter occluding member is positioned
either in an interior or at an exterior of the arterial circulation support catheter.
A venous circulation support catheter is provided and includes a blood lumen
with a proximal end coupled to the extracorporeal support apparatus and a distal
end inserted into the blood circulation. A venous circulation support catheter
15 occluding member is included and positioned in an interior or at an exterior of
the venous circulation support catheter. The venous circulation support catheter
occluding member occludes the superior vena cava and the inferior vena cava.